## Sheet 1 of 7

Appl. No To be assigned,; Group Art Unit: To be assigned; Dkt. No. 1488.0880003/EKS/PSC; Inventors. Duan et al;; Tel: 202/371-2600; Title: Antibodies Directed to ELL2, a New Member of an ELL Family of RNA Polymerase II Elongation Factors (As amended herein);

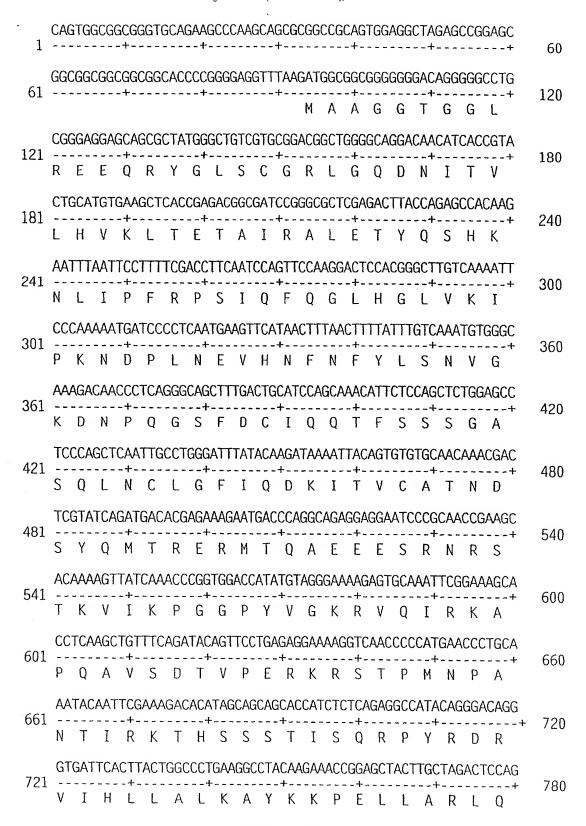


FIG.1A

Appl. No. To be assigned; ; Group Art Unit: To be assigned, Dkt. No. 1488.0880003/EKS/PSC, Inventors: Duan et al.; Tel: 202/371-2600; Title: Antibodies Directed to ELL2, a New Member of an ELL Family of RNA Polymerase II Elongation Factors (As amended herein);

| 781                              | AAAGATGGTGTCAATCAAAAAGACAAGAACTCCCTGGGAGCAATTCTGCAACAGGTAGCC |                                  |  |   |  |  |  |                               |                                  |  |  |                                |  |  | 0.4.0  |   |  |   |  |                              |
|----------------------------------|--|----------------------------------|--|---|--|--|--|-------------------------------|----------------------------------|--|--|--------------------------------|--|--|--|---|--|---|--|------------------------------|
| 701                              | K  | ) G                              | V  | N                                       | Q  | K                                      | D  | K                             | N                                | *  | L  | G                              | -+-<br>A   | I                                      | L  | Q   | Q  | V   | A  | 840                          |
| 841                              | AAT(   | CTGA                             | ATTO   | TAA                                     | GGA  | CCT                                    | СТС  | ATA                           | TAC                              | CTT  | TAAA   | .GGA                           | TTA  | TGT                                    | ТТТ  | TA  | VAG/   | AGC T   | TCAA                                     |                              |
| 041                              | N I  | _ N                              | S  | K                                       | D  | L                                      | S  | Υ                             | T                                | L  | K  | D                              | Υ  | ٧                                      | F  | <del>1</del>  | E  | L   | Q  | 900                          |
| 901                              | AGAGACTGGCCTGGATACAGTGAAATAGACAGACGGTCATTGGAGTCAGTGCTCTCTAGA |                                  |  |   |  |  |  |                               |                                  |  |  |                                |  |  |  |   |  |   |  |                              |
| J01                              | R (  | ) W                              | Р  | G                                       | Υ  | S                                      | E  | I                             | D                                | R  | R  | S                              | -+-<br>L   | E                                      | S  | V   | L  | S   | R  | 960                          |
| 961                              | AAA(   | CTAA                             | ATCC   | GTC                                     | TCA  | GAA                                    | TGC  | TAC                           | AGG                              | CAC  | CAG  | CCG                            | TŢC  | AGA                                    | ATC  | TCC   | TGT  | ATG   | ттст                                     |                              |
| J01                              | ΚI   | - N                              | Р  | S                                       | Q  | N                                      | A  | T                             | G                                | †<br>T   | S  | R                              | -+-<br>S   | E                                      | S  | <del>1</del>  | V  | C   | S+                                       | 1020                         |
| 1021                             | AGTA   | \GAG/                            | \TGC   | TGT                                     | ATC  | TTC                                    | TCC  | TCA                           | GAA                              | ACG  | GCT  | TTT                            | GGA  | TTC                                    | AGA  | GTT   | TAT  | TGA   | TCCT                                     |                              |
| 1021                             | SF   | R D                              | Α  | ٧                                       | S  | S                                      | P  | Q                             | K                                | +<br>R   | Ĺ  | L                              | -+-<br>D   | S                                      | Ē  | +<br>F  | Ī  | <br>D   | +<br>P                                   | 1080                         |
| 1081                             | TTA  | ATGA/                            | ATAA   | AAA                                     | AGC  | CCG                                    | AAT  | ATC                           | TCA                              | ССТ  | GAC  | GAA                            | CAG  | AGT.                                   | ACC  | ACC   | AAC  | CACT  | TAAAT                                    |                              |
| 1001                             | LN   | 1 N                              | K  | K                                       | A  | R                                      | Ī  | S                             | Н                                | +<br>L   | T  | N                              | -+-<br>R   | ٧                                      | P  | - <u>-</u> +  | T  | <br>L   | +<br>N                                   | 1140                         |
| 1141                             | GGTC   | TTA:                             | GAA  | TCC                                     | CAC  | CAG                                    | TGA  | AAA                           | ATC                              | GGC  | TGC.   | AGG                            | ССТ  | CCC.                                   | ACT  | GCC   | CCC  | TGC   | GGCT                                     |                              |
| 1171                             | G F  | l L                              | N  | P                                       | T  | S                                      | E  | K                             | S                                | A  | Ā  | G                              | -+-<br>L   | P                                      | L  | +<br>P  |  | A   | +<br>A                                   | 1200                         |
| 1201                             | GCTGCCATCCCCACCCCTCCACCGCTGCCTTCAACCTATCTGCCCATCTCACATCTCCT  |                                  |  |   |  |  |  |                               |                                  |  |  |                                |  |  |  |   |  |   |  |                              |
| 1201                             | GCTG   | CCAT                             | CCC  | CAC                                     | CCC  | TCC                                    | ACC  | GCT                           | GCC                              | TTC  | AAC  | CTA                            | TÇT  | GCC                                    | CAT  | СТС   | ACA  | TCC   | TCCT                                     |                              |
| 1201                             | GCTG<br>A A  |                                  | CCC<br>-+-<br>P  | CAC<br>T                                | CCC<br>P                                   | TCC<br>+<br>P                          | ACC<br>P                                     | GCT<br>L                      | GCC<br>P                         | TTC<br>+<br>S  | AAC<br>T   | CTA<br>Y                       | TCT<br>-+-<br>L                                    | GCC<br>P                               | CAT<br>I                                       | CTC<br>+<br>S                                       | ACA<br>H   | TCC<br>P  | TCCT<br>P                                | 1260                         |
|                                  | A A  | I                                | P  | T                                       | P  | +<br>P                                 | P  | L                             | P                                | +<br>S   | T  | Υ                              | -+-<br>L   | <br>Р                                  | <br>I  | +<br>S  | Н  | P   | TCCT<br>P<br>AGAC                        |                              |
| 1201<br>1261                     | A A  | I                                | P  | T                                       | P  | +<br>P                                 | P  | L                             | P                                | +<br>S   | T  | Υ                              | -+-<br>L   | <br>Р                                  | <br>I  | +<br>S  | Н  | P   | +<br>P                                   | 1260<br>1320                 |
|                                  | A A CAGA   | TTGT<br>V                        | P<br>AAA<br>-+-<br>N   | TTC<br>S                                | P<br>TAA<br><br>N                          | +<br>P<br>CTC<br>+<br>S                | P<br>CAA<br>N                                | L<br>CTC<br>S                 | P<br>CCC<br>P                    | +<br>S<br>TAG<br>+<br>S  | T<br>CAC<br>T  | TCC<br>P                       | -+-<br>L<br>AGA<br>-+-<br>E                        | P<br>AGG<br><br>G                      | I<br>CCG<br>R                                  | GGG   | H<br>GAC<br>T  | P<br>TCA<br>Q   | +<br>P                                   | 1320                         |
| 1261                             | A A CAGA   | TTGT<br>V                        | P<br>AAA<br>-+-<br>N   | TTC<br>S                                | P<br>TAA<br><br>N                          | +<br>P<br>CTC<br>+<br>S                | P<br>CAA<br>N                                | L<br>CTC<br>S                 | P<br>CCC<br>P                    | +<br>S<br>TAG<br>+<br>S  | T<br>CAC<br>T  | TCC<br>P                       | -+-<br>L<br>AGA<br>-+-<br>E                        | P<br>AGG<br><br>G                      | I<br>CCG<br>R                                  | GGG   | H<br>GAC<br>T  | P<br>TCA<br>Q   | AGAC<br>D                                |                              |
| 1261<br>1321                     | A A CAGA   | TTGT<br>V<br>CCTGT<br>V          | AAA<br>N<br>TGA<br>D   | TTC<br>S<br>CAG<br>S                    | P<br>TAA<br>N<br>TTT<br>F                  | CTC<br>S<br>TAG                        | P<br>CAA<br>N<br>TCA<br>Q<br>AAC             | CTC S AAA N CTT               | P<br>CCC<br>P<br>CGA<br>D        | TAG<br>TAG<br>TAG<br>TAG   | TATE   | TCCA<br>P<br>CTA               | AGA<br>-+-<br>E<br>TGA<br>-+-<br>E                 | P<br>AGG<br>G<br>GGA<br>D              | CCA<br>Q                                       | GGG<br>GCA<br>Q                                     | GAC<br>T<br>AGA                                      | P<br>TCA<br>Q<br>ACAA<br>K                            | AGAC<br>D<br>ATAT                        | 1320<br>1380                 |
| 1261                             | A A CAGA   | TTGT<br>V<br>CTGT<br>V<br>CTAG   | P<br>TAAA<br>N<br>TGA<br>D<br>GGAC                           | TTC<br>S<br>CAG<br>S<br>TTC             | TAA N TTT F TCT                            | CTC<br>S<br>TAG<br>S<br>GGA            | P<br>CAA<br>N<br>TCA<br>Q<br>AAC             | CTC<br>S<br>AAA<br>N<br>CTT   | P<br>CCC<br>P<br>CGA<br>D<br>ACC | TAG<br>TAG<br>TAG<br>S<br>CCC  | TATE   | TCCA<br>P<br>CTA<br>Y<br>TTCC  | AGA<br>-+-<br>E<br>TGA<br>-+-<br>E                 | AGG<br>GGA<br>TCT                      | I<br>CCG<br>R<br>CCA<br>Q<br>ACT               | GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG              | H<br>GAC<br>T<br>AGA<br>D<br>GTG                     | P<br>Q<br>Q<br>ACAA<br>K<br>TCC                       | AGAC  TO  ATAT  Y  AAAG  K               | 1320                         |
| 1261<br>1321                     | A A CAGA   | V<br>CTGT<br>V<br>CTAG           | AAA<br>N<br>TGA<br>D<br>GGAC<br>T                            | TTC<br>S<br>CAGG<br>S<br>TTC<br>S       | P<br>TAA<br>N<br>TTT<br>F<br>TCT<br>L      | P<br>CTC<br>S<br>TAGGA+<br>S<br>GGA    | P<br>CAA<br>N<br>TCA<br>Q<br>AAC<br>T        | CTC S AAAA N CTT              | P CCCC P CGA D ACCC              | TAG<br>+<br>S<br>TAG<br>+<br>S<br>CCC<br>P                             | T CAC T TATE I TGG G AAAA                              | Y TCC, P CTA Y TTC             | AGA<br>AGA<br>TGA<br>TGA<br>CGT<br>V               | P<br>AGG<br>G<br>GGA<br>D<br>TCT,<br>L | CCG<br>R<br>CCA<br>Q<br>ACT<br>L               | GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG              | H GAC  | P Q Q CAAA K K TCCC                                   | AGAC  ATAT  Y  AAAG  ACAT                | 1320<br>1380<br>1440         |
| 1261<br>1321<br>                 | A A CAGA   | TTGT V CTGT R TTGGA              | FAAAA<br>-+-N<br>TGA-<br>D<br>GGAC<br>T<br>VAGA              | TTC<br>S<br>CAG<br>S<br>TTC<br>S<br>AAA | TAAA<br>N<br>TTTT<br>F<br>TCTT<br>L<br>CCA | CTC+ S TAG+ S GGA+ E TTC.              | P<br>CAA<br>N<br>TCA<br>Q<br>AAC<br>T<br>AAT | CTC S AAAA N CTT              | P CCC P CGA D ACCC P TCA         | TAGG+S CCCC+P CAA  | T CAC T TATE I TGG G AAAA                              | Y TCC, P CTA' Y TTCC           | AGA<br>-+-<br>E<br>TGAI<br>-+-<br>CGT<br>-V<br>CAA | AGG<br>G<br>GGA<br>TCT<br>L<br>AAAA    | CCG<br>R<br>CCA<br>Q<br>ACT<br>L<br>GAA        | GGG<br>GCA<br>GCA<br>Q<br>AAA<br>K<br>GTC           | H<br>GAC<br>T<br>AGA<br>D<br>GTG<br>C<br>TAA         | P Q CAAA K F CCC                                      | AGAC  ATAT  Y  AAAG  ACAT  H             | 1320<br>1380                 |
| 1261<br>1321<br>                 | A A CAGA   | TTGT V CTAG                      | FAAA<br>TGAA<br>TGA<br>TGAC<br>TGAC<br>TGAGAC<br>T           | TTC<br>S<br>CAG<br>S<br>TTC<br>S<br>AAA | TAA<br>N<br>TTT<br>F<br>TCT<br>L<br>CCA    | CTC+ S TAG GGA+ E TTC+ S AAA           | P CAA N TCA Q AAC T AAT                      | CTC S AAAA N CTT. L GTC S GCA | P CCC P CGA D ACCC P TCA         | TAG<br>+<br>S<br>TAG<br>+<br>S<br>CCC<br>P<br>CAA<br>K                 | T CAC T TAT  | TCCA P CTA Y TTCC S GTCC S GAC | AGA<br>TGA<br>TGA-<br>E<br>CGT-<br>V               | AGGGGGGGATCT, K                        | CCA<br>R<br>CCA<br>Q<br>ACT<br>L<br>GAA<br>K   | GGG<br>GCA<br>GCA<br>Q<br>AAA<br>+<br>K<br>GTC<br>S | H GAC T AGA GTG C TAA K GGA                          | P Q Q CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA              | AGAC  ATAT  Y  AAAG  ACAT  H  AGAT       | 1320<br>1380<br>1440<br>1500 |
| 1261<br>1321<br><br>1381<br>1441 | A A CAGA   | TTGT V CTAG                      | FAAA<br>TGAA<br>TGA<br>TGAC<br>TGAC<br>TGAGAC<br>T           | TTC<br>S<br>CAG<br>S<br>TTC<br>S<br>AAA | TAA<br>N<br>TTT<br>F<br>TCT<br>L<br>CCA    | CTC+ S TAG GGA+ E TTC+ S AAA           | P CAA N TCA Q AAC T AAT                      | CTC S AAAA N CTT. L GTC S GCA | P CCC P CGA D ACCC P TCA         | TAG<br>+<br>S<br>TAG<br>+<br>S<br>CCC<br>P<br>CAA<br>K                 | T CAC T TAT  | TCCA P CTA Y TTCC S GTCC S GAC | AGA<br>TGA<br>TGA-<br>E<br>CGT-<br>V               | AGGGGGGGATCT, K                        | CCA<br>R<br>CCA<br>Q<br>ACT<br>L<br>GAA<br>K   | GGG<br>GCA<br>GCA<br>Q<br>AAA<br>+<br>K<br>GTC<br>S | H GAC T AGA GTG C TAA K GGA                          | P<br>CTCA<br>Q<br>CCAA<br>K<br>STCC<br>P<br>AAAA<br>K | AGAC  ATAT  Y  AAAG  ACAT  H             | 1320<br>1380<br>1440         |
| 1261<br>1321<br><br>1381<br>1441 | A A A CAGA ACCT T S CCTA AAGG                                | V<br>CCTGT<br>V<br>CCTAG<br>TGGA | FAAAAN N TGAAGAC T D GGAC T T AAGAAAAAAAAAAAAAAAAAAAAAAAAAAA | TTC S CAG S TTC S AAAA N CCA Q AGA      | TAAA N TTT F TCT L CCA H AAT               | CTC+ S TAG+ S GGA+ E TTC+ S AAA+ K AAT | P CAA N TCA Q AAC T AATI M AAA               | CTC S AAA N CTT L GTC S GCA   | P CCC P CGA D ACCC H CGA D GCT   | +<br>S<br>TAG<br>+<br>S<br>CCCC<br>+<br>P<br>CAA<br>K<br>CAT<br>+<br>I | TATO<br>TATO<br>TATO<br>TGGG<br>G<br>AAAA<br>K<br>TGAA | TCC. P CTA                     | AGA -+- E TGA -+- CGT V CAA I CAG                  | AGGGGGGGGAGGGGAGGGGGGGGGGGGGGGGGGGGGGG | CCA<br>CCA<br>CCA<br>Q<br>ACT<br>L<br>GAA<br>K | GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG              | GAGA  TAAA  TAAA  TAAA  TAAA  TAAA  TAAA  TAAA  TAAA | P Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q               | AGAC  ATAT  Y  AAAG  ACAT  H  AGAT  AGAT | 1320<br>1380<br>1440<br>1500 |

FIG.1B

## Sheet 3 of 7

Appl. No. To be assigned; Group Art Unit: To be assigned; Dkt. No. 1488.0880003/EKS/PSC; Inventors: Duan et al.;; Tel: 202/371-2600; Title: Antibodies Directed to ELL2, a New Member of an ELL Family of RNA Polymerase II Elongation Factors (As amended herein);

|       | L  | K   | R    | Ε   | E   | E   | I         | Α   | K   | L    | N   | N   | S   | S    | Þ   | N     | S   | S   | G   | G     |      |
|-------|--|---|------|-----|-----|-----|-----------|-----|-----|------|-----|-----|-----|------|-----|-------|-----|-----|-----|-------|------|
| 1.601 | GTTAAAGAGGATTGCACTGCCTCCATGGAACCTTCAGCAATTGAACTCCCAGATTATTTG |   |      |     |     |     |           |     |     |      |     |     |     |      |     | 1.000 |     |     |     |       |      |
| 1621  | ٧  | K   | Ε    | D   | С   | T   | A         | S   | M   | E    | Р   | S   |     |      |     |       | -   |     |     | L     | 1680 |
| 1681  | ATAAAATATATCGCTATCGTCTCCTATGAGCAACGCCAGAATTATAAGGATGACTTCAAT |   |      |     |     |     |           |     |     |      |     |     |     |      |     | 1740  |     |     |     |       |      |
| 1001  | I  | K   | Υ    | I   | Α   | I   | ٧         | S   | Υ   | E    | Q   | R   | Q   | N    | Υ   | K     | D   | D   | F   | N     | 1740 |
| 1741  |  |   |      |     |     |     |           |     |     |      |     |     |     |      |     |       |     |     |     | ATTT  | 1800 |
| 1171  |  |   |      |     | Ε   |     |           |     |     |      |     |     |     |      |     |       |     |     |     |       | 1000 |
| 1801  | AT   | CAA   | ACT. | AGA | TGC | ACA | AAG       | AAA | GCG | CCT  | TTC | TCC | AGG | CTC. | AAA | AGA   | GTA | TCA | GAA | TGTT  | 1060 |
| 1001  | I  | K   | L    | D   | Α   | Q   | R         | K   | R   | L    | S   | Р   | G   | S    | K   | E     | Υ   | Q   | N   | V     | 1860 |
| 1861  |  |   |      |     |     |     |           |     |     |      |     |     |     |      |     |       |     |     |     | TGAA  | 1920 |
|       | Н  | Ε   | Ε    | ٧   | L   | Q   | E         | Υ   | Q   | K    | I   | K   | Q   | S    | S   | Р     | N   | Υ   | Н   | E     |      |
| 1921  |  | AAAAATACAGATGTGAATATCTTCATAACAAGCTGGCTCACATCAAAAGGCTAATAGGT |      |     |     |     |           |     |     |      |     |     |     |      |     | 1980  |     |     |     |       |      |
|       |  | K   | Υ    | R   | С   | E   | Υ         | L   | Н   | N    | K   | L   | Α   | Н    | I   | K     | R   | L   | I   | G     | 1300 |
| 1981  |  |   |      |     |     |     |           |     |     |      |     |     |     |      |     |       |     |     |     | ATGT  | 2040 |
|       |  |   |      |     | Q   |     |           |     |     |      |     |     |     |      |     |       |     |     |     |       |      |
| 2041  |  |   |      |     |     |     | TTT.<br>+ |     |     | TAA. |     |     |     |      | GCT | CTA   |     |     |     | VAAGG | 2100 |
| 2101  |  |   |      |     | CTG |     |           |     |     |      |     |     |     |      | 21  | .39   |     |     |     |       |      |

FIG.1C

Appl No To be assigned; Group Art Unit: To be assigned; Dkt. No. 1488,0880003/EKS/PSC; Inventors: Duan et al.; Tel: 202/371-2600, Title: Antibodies Directed to ELL2, a New Member of an ELL Family of RNA Polymerase II Elongation Factors (As amended herein),

| 640 | YSEYRDLHARIERITRRETQUDAGURQLSGGSEEYEJI IRGQILQEYKKIKKIN INYSWEKHKUEYLHARID   |
|-----|--|
| 621 | DGGGAESWS  |
| 551 | KDQIKKINGIETIEEKEEGIKreeeiak InnssphsBggvkedcTASMEPSAIELPDYLIKMIAIVSYEARONYKDDFNAE   |
| 532 | KERaaedkpraqipdcapathatpgapadtpgihgucsVSSVPTSTSETPDYLLKYAAISSSEAROSYKNDFNAE  |
| 471 | vnsnsnspstpegngtddlpvolafsgndsliyedqqdkytsrtsletlppgsVLLKOPKPMEENHSMSHKKSKKKSKKHKE<br>pladvsndlghsgndcehgeaaapbptvrlglpLLTDGAQPSRPHGSPSRSKPKKSKKHKD                |
| 391 | DAVSSPOKRIL DSEFIIDPLMNKKAARIISHLINRVPPTLNGHLnptseksdaglplppada iptpplpstylpishppqi  |
| 395 | RSASPPOKRLQPPLFIIDPLANKKPRISHFIORAQPAVNGKLGvpngdedllptpgppastdtlsssthlpprlepprahd  |
| 311 | OKOKNSLGAILLOGVANINSKOLSYILKOYVFKELORDWPGYSEIDRRSLESVLSRKLhpsdnatGISRSEBPVCSSR<br>GADKDALDGILOGVANMSAKOGICILOOCMYKDVOKDWPGYSEGDQOLLKRVLVRKLC9pgstgsliGDPAASSPPGERG |
| 234 | WGKRVOIRKAPQAVSDTWPERKRSTPMNPANTIRKTHSSSTTSORPWRDRVIHLLALKAWKKPELLARLOKDGWN  |
| 235 | LGKKVOFRKPAPGATDAWPSRKRATPINLASAIIRKSGASAVS99SGVSORPWRDRVIHLLALRPWRKAELLLRLOKDGLT  |
| 159 | NENFYLSINVGKBNPQGSFBCIIQQTFSSSGASQLNGLGFIIQBKITVCATNBSYQMTRERMTQAEEESRNRSTKVIKPGGPY  |
| 155 | TESFYLSINIIGRBNPQGSFBCIIQQYVSSHGEVHLDGLGSIIQBKITVCATBBSYQKARQSMAQAEEEIIRSRSAIVIKAGGRY  |
| 79  | maaggtGGLREEGRYGLSCGRLGGA-NITVLHVKLTETAIRALETYRASHKNLIPFRPSIGFGGLHGLMKIPKNDPLNEVH<br>mAALKEDRSYGLSGGRVSGGSKVSVFHVKLIDSAIRAFESYRARQDSWSLRPSIRFGGSGGHISIIPGPDCPAEAR  |

FIG. 2

## Sheet 5 of 7

Appl No. To be assigned; Group Art Unit: To be assigned; Dkt. No. 1488.0880003/EKS/PSC; Inventors: Duan et al.;; Tel: 202/371-2600; Title. Antibodies Directed to ELL2, a New Member of an ELL Family of RNA Polymerase II Elongation Factors (As amended herein);

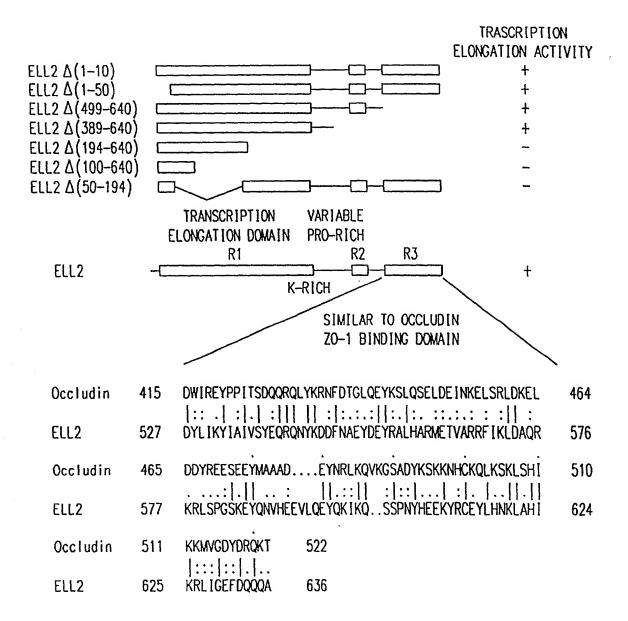


FIG. 3

## Sheet 6 of 7

Appl. No. To be assigned; ; Group Art Unit: To be assigned; Dkt. No. 1488.0880003/EKS/PSC; Inventors: Duan et al.;; Tel: 202/371-2600; Title: Antibodies Directed to ELL2, a New Member of an ELL Family of RNA Polymerase II Elongation Factors (As amended herein),

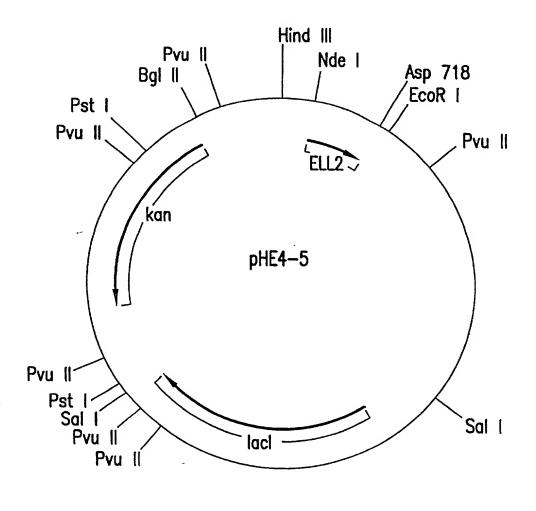


FIG. 4

Sheet 7 of 7

Appl. No To be assigned; Group Art Unit: To be assigned; Dkt. No 1488 0880003/EKS/PSC; Inventors: Duan et al.; Tel: 202/371-2600; Title. Antibodies Directed to ELL2, a New Member of an ELL Family of RNA Polymerase II Elongation Factors (As amended herein);

–35 Operator i AAGCTTAAAAAACTGCAAAAAATAGT<mark>ITGACT[[6]666664]AACAA]</mark>

-10 Operator 2 50 TAACATCTACCCAGTTGTGTGAGGGGATAAGAATTTCAC

S/D 94 AGAGGAGAAATTA CATATG FIG. 5